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PTO/SB/21 (6-98)

Approved for use through 09/30/2000. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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2882

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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission  
(Including Transmittal Forms)

Application Number

09/965,929

Filing Date

September 28, 2001

First Named Inventor

Robert W. Byren

Group Art Unit

2882

Examiner Name

Thomas, C. D.

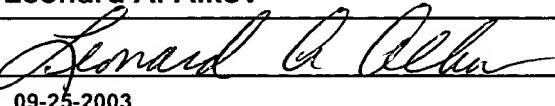
Attorney Docket Number

PD-00W129

### ENCLOSURES (check all that apply)

|  |   |  |
|--|---|--|
| <input type="checkbox"/> Fee Transmittal Form                                | <input type="checkbox"/> Assignment Papers<br>(for an Application)                          | <input type="checkbox"/> After Allowance Communication to Group                            |
| <input type="checkbox"/> Fee Attached  | <input type="checkbox"/> Drawing(s)   | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences        |
| <input type="checkbox"/> Amendment / Response                                | <input type="checkbox"/> Licensing-related Papers   | <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final   | <input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition        | <input type="checkbox"/> Proprietary Information   |
| <input type="checkbox"/> Affidavits/declaration(s)                           | <input type="checkbox"/> Petition to Convert to a Provisional Application                   | <input type="checkbox"/> Status Letter   |
| <input type="checkbox"/> Extension of Time Request                           | <input type="checkbox"/> Power of Attorney, Revocation, or Change of Correspondence Address | <input type="checkbox"/> Additional Enclosure(s):<br>(please identify below):              |
| <input type="checkbox"/> Express Abandonment Request                         | <input type="checkbox"/> Terminal Disclaimer  |  |
| <input checked="" type="checkbox"/> Information Disclosure Statement         | <input type="checkbox"/> Small Entity Statement   |  |
| <input type="checkbox"/> Certified Copy of Priority Document(s)              | <input type="checkbox"/> Request for Refund   |  |
| <input type="checkbox"/> Response to Missing Parts/ Incomplete Application   |   |  |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 |   |  |
| Remarks  |   |  |

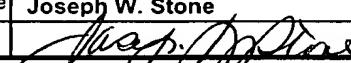
### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

|                         |  |
|-------------------------|--|
| Firm or Individual name | Leonard A. Alkov   |
| Signature               |  |
| Date                    | 09-25-2003   |

### CERTIFICATE OF MAILING

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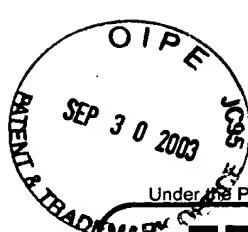
Typed or printed name

Signature 

Date

9/25/2003

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# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** **(\$)** 180.00

## Compl. te if Known

|                      |                    |
|----------------------|--------------------|
| Application Number   | 09/965,929         |
| Filing Date          | September 28, 2001 |
| First Named Inventor | Robert W. Byren    |
| Examiner Name        | Thomas, C. D.      |
| Art Unit             | 2882               |
| Attorney Docket No.  | PD-00W129          |

## METHOD OF PAYMENT (check all that apply)

Check  Credit card  Money Order  Other  None

Deposit Account:

|                        |                  |
|------------------------|------------------|
| Deposit Account Number | 50-0616          |
| Deposit Account Name   | Raytheon Company |

The Director is authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity<br>Fee<br>Code (\$) | Small Entity<br>Fee<br>Code (\$) | Fee Description        | Fee Paid |
|----------------------------------|----------------------------------|------------------------|----------|
| 1001 750                         | 2001 375                         | Utility filing fee     |          |
| 1002 330                         | 2002 165                         | Design filing fee      |          |
| 1003 520                         | 2003 260                         | Plant filing fee       |          |
| 1004 750                         | 2004 375                         | Reissue filing fee     |          |
| 1005 160                         | 2005 80                          | Provisional filing fee |          |
| <b>SUBTOTAL (1)</b>              |                                  | <b>(\$)</b>            |          |

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

|                    |                      |                              |                      |                      |                |                      |          |
|--------------------|----------------------|------------------------------|----------------------|----------------------|----------------|----------------------|----------|
| Total Claims       | <input type="text"/> | -20** = <input type="text"/> | <input type="text"/> | <input type="text"/> | Fee from below | <input type="text"/> | Fee Paid |
| Independent Claims | <input type="text"/> | - 3** = <input type="text"/> | <input type="text"/> | <input type="text"/> |                | <input type="text"/> |          |
| Multiple Dependent |                      |                              |                      |                      |                | <input type="text"/> |          |

| Large Entity<br>Fee<br>Code (\$) | Small Entity<br>Fee<br>Code (\$) | Fee Description  |
|----------------------------------|----------------------------------|--|
| 1202 18                          | 2202 9                           | Claims in excess of 20                                     |
| 1201 84                          | 2201 42                          | Independent claims in excess of 3                          |
| 1203 280                         | 2203 140                         | Multiple dependent claim, if not paid                      |
| 1204 84                          | 2204 42                          | ** Reissue independent claims over original patent         |
| 1205 18                          | 2205 9                           | ** Reissue claims in excess of 20 and over original patent |
| <b>SUBTOTAL (2)</b>              |                                  | <b>(\$)</b>  |

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity

Small Entity

| Fee<br>Code (\$) | Fee<br>Code (\$) | Fee<br>Code (\$) | Fee<br>Code (\$) | Fee Description  | Fee Paid |
|------------------|------------------|------------------|------------------|--|----------|
| 1051 130         | 2051 65          | 2051 65          | 2051 65          | Surcharge - late filing fee or oath  |          |
| 1052 50          | 2052 25          | 2052 25          | 2052 25          | Surcharge - late provisional filing fee or cover sheet                     |          |
| 1053 130         | 1053 130         | 1053 130         | 1053 130         | Non-English specification  |          |
| 1812 2,520       | 1812 2,520       | 1812 2,520       | 1812 2,520       | For filing a request for ex parte reexamination                            |          |
| 1804 920*        | 1804 920*        | 1804 920*        | 1804 920*        | Requesting publication of SIR prior to Examiner action                     |          |
| 1805 1,840*      | 1805 1,840*      | 1805 1,840*      | 1805 1,840*      | Requesting publication of SIR after Examiner action                        |          |
| 1251 110         | 2251 55          | 2251 55          | 2251 55          | Extension for reply within first month                                     |          |
| 1252 410         | 2252 205         | 2252 205         | 2252 205         | Extension for reply within second month                                    |          |
| 1253 930         | 2253 465         | 2253 465         | 2253 465         | Extension for reply within third month                                     |          |
| 1254 1,450       | 2254 725         | 2254 725         | 2254 725         | Extension for reply within fourth month                                    |          |
| 1255 1,970       | 2255 985         | 2255 985         | 2255 985         | Extension for reply within fifth month                                     |          |
| 1401 320         | 2401 160         | 2401 160         | 2401 160         | Notice of Appeal   |          |
| 1402 320         | 2402 160         | 2402 160         | 2402 160         | Filing a brief in support of an appeal                                     |          |
| 1403 280         | 2403 140         | 2403 140         | 2403 140         | Request for oral hearing   |          |
| 1451 1,510       | 1451 1,510       | 1451 1,510       | 1451 1,510       | Petition to institute a public use proceeding                              |          |
| 1452 110         | 2452 55          | 2452 55          | 2452 55          | Petition to revive - unavoidable   |          |
| 1453 1,300       | 2453 650         | 2453 650         | 2453 650         | Petition to revive - unintentional   |          |
| 1501 1,300       | 2501 650         | 2501 650         | 2501 650         | Utility issue fee (or reissue)   |          |
| 1502 470         | 2502 235         | 2502 235         | 2502 235         | Design issue fee   |          |
| 1503 630         | 2503 315         | 2503 315         | 2503 315         | Plant issue fee  |          |
| 1460 130         | 1460 130         | 1460 130         | 1460 130         | Petitions to the Commissioner  |          |
| 1807 50          | 1807 50          | 1807 50          | 1807 50          | Processing fee under 37 CFR 1.17(q)  |          |
| 1806 180         | 1806 180         | 1806 180         | 1806 180         | Submission of Information Disclosure Stmt                                  | 180.00   |
| 8021 40          | 8021 40          | 8021 40          | 8021 40          | Recording each patent assignment per property (times number of properties) |          |
| 1809 750         | 2809 375         | 2809 375         | 2809 375         | Filing a submission after final rejection (37 CFR 1.129(a))                |          |
| 1810 750         | 2810 375         | 2810 375         | 2810 375         | For each additional invention to be examined (37 CFR 1.129(b))             |          |
| 1801 750         | 2801 375         | 2801 375         | 2801 375         | Request for Continued Examination (RCE)                                    |          |
| 1802 900         | 1802 900         | 1802 900         | 1802 900         | Request for expedited examination of a design application                  |          |

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** **(\$)** 180.00

(Complete if applicable)

|                   |                         |                                      |        |           |              |
|-------------------|-------------------------|--------------------------------------|--------|-----------|--------------|
| Name (Print/Type) | Leonard A. Alkov        | Registration No.<br>(Attorney/Agent) | 30,021 | Telephone | 310.647.2577 |
| Signature         | <i>Leonard A. Alkov</i> |                                      |        | Date      | 09/25/2003   |

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: ) Date: September 25, 2003  
ROBERT W. BYREN ET AL. )  
Serial No.: 09/965,929 ) Art Unit: 2882  
Filed: September 28, 2001 )  
Title: **SYSTEM AND METHOD FOR** ) Examiner: Thomas, C. D.  
**EFFECTING HIGH-POWER**  
**BEAM CONTROL WITH . . .**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
Post Office Box 1450  
Alexandria, VA 22313

Dear Sir:

The references cited on the enclosed form PTO/SB/08A (copy of references enclosed) may be material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37CFR 1.56.

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, or that additional information constitutes prior art.

I hereby certified that each item in the Search Report was cited by a foreign patent office, in a counterpart foreign application, not more than three (3) months prior to the filing of this Statement.

Respectfully submitted,

Raytheon Company  
Bldg. E4, Mail Station N119  
P.O. Box 902  
El Segundo, CA 90245

By   
Leonard A. Alkov  
Registration No. 30,021  
(310) 647-2577

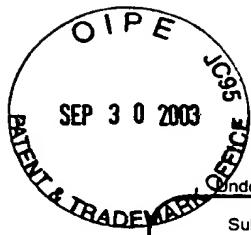
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*I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313, on September 25, 2003.*

10/03/2003 EFLORES 00000105 500616 09965929

01 FC:1805 180.00 DA

  
Leonard A. Alkov



SEP 30 2003

PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

**Substitute for form 1449/PTO**

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
*(Use as many sheets as necessary)*

**(Use as many sheets as necessary)**

Sheet 1 of 1

**Complete if Known**

|                        |                    |
|------------------------|--------------------|
| Application Number     | 09/965,929         |
| Filing Date            | September 28, 2001 |
| First Named Inventor   | Robert W. Byren    |
| Art Unit               | 2882               |
| Examiner Name          | Thomas, C.D.       |
| Attorney Docket Number | PD-00W129          |

**U. S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional).<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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